

Data Validation Checklist Semivolatile Organic Analyses

Project: 35TH Avenue Superfund Site
 Laboratory: TestAmerica – Tampa, FL
 Method: SW-846 8270C Low-Level (PAH)
 Matrix: Soil
 Reviewer: Jane Lindsey
 Concurrence¹: Carol Lovett, Martha Meyers-Lee

Project No: 15268508.20000
 Job ID.: 680-87318-1
 Associated Samples: Refer to **Attachment A** (Sample Summary)
 Date(s) Collected: 02/07/2013
 Date: 02/27/2013
 Date: 03/27/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Were holding times met (≤7 and 14 days from collection to extraction for aqueous and solid samples, respectively; ≤40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.			✓		
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	✓				
10. Were target analytes detected in the method blank?		✓			
11. Were target analytes detected in equipment/rinsate blanks?		✓		PAHs were not detected during the analysis of rinsate blank 020513-RB-Bowls+Spoons (680-87170-29).	
12. Are equipment/rinsate blanks associated with every sample? If	✓			According to the QAPP, a rinsate blank is to be collected after each decontamination event, which	

¹ Independent technical reviewer
 URS Group, Inc.
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Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
no, note in DV report.				occurs once per week per the client. A rinsate blank (020513-RB-Bowls+Spoons) was collected during the week of 02/04/2013. The rinsate blank was analyzed for PAHs under Test America Job ID 680-87170-2.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)			✓	Blank contamination does not exist.	
14. Is a field duplicate associated with this Job?	✓			<ul style="list-style-type: none"> CV0005B-CS and CV0005B-CSD (680-87318-2 and 680-87318-3) CV0005E-CS and CV0005E-CSD (680-87318-7 and 680-87318-8) CV0005G-CS and CV0005G-CSD (680-87318-10 and 680-87318-11) CV0005J-CS and CV0005J-CSD (680-87318-14 and 680-87318-15) CV0005M-CS and CV0005M-CSD (680-87318-18 and 680-87318-19) 	
15. Was precision deemed acceptable as defined by the project plans?		✓		See Attachment B (Field Duplicate Evaluation)	J
16. Were DFTPP ion abundance criteria (i.e., Table 3 of SW-846 8270C) met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓			Alternate tuning criteria were used by the laboratory (i.e., EPA Method 525.2). All ion abundance criteria were met per EPA Method 525.2.	
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓				
18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument? <ul style="list-style-type: none"> Ensure that a minimum of five standards are used for the initial calibration. If no, use professional judgment to determine the effect on the data and note in the reviewer narrative. An initial calibration is to be associated with each sample analysis. A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument. 	✓			<ul style="list-style-type: none"> Initial Calibration: 01/30/2013, instrument BSMA5973 ICV: 01/30/2013 @13:35 CCV: 02/15/2013 @15:21 Initial Calibration: 01/07/2013, instrument BSMC5973 ICV: 01/07/2013 @17:31 CCV: 02/15/2013 @11:56 CCV: 02/18/2013 @14:07 	
19. Were calibration results within laboratory/project specifications?		✓		ICV of 01/30/13 @ 13:35, instrument BSMA5973: 2-Methylnaphthalene @23.7 %D (Lab: ≤35, Project:	J

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
<ul style="list-style-type: none"> ICAL (Criteria: ≤ 15 mean %RSD with individual CCC %RSD ≤ 30 ($\leq 50\%$ for poor performers), OR $r \geq 0.995$, OR $r^2 \geq 0.99$, and RRF ≥ 0.050 (≥ 0.010 for poor performers)): <ul style="list-style-type: none"> If %RSD > 15 ($> 50\%$ for poor performers), or $r < 0.995$, or $r^2 < 0.995$, then J-flag positive results and UJ-flag non-detects If mean RRF < 0.050 (< 0.010 for poor performers), then J-flag positive results and R-flag non-detects ICV and CCV (Criteria: $\leq 20\% D$ ($\leq 50\%$ for poor performers) and RF ≥ 0.050 (≥ 0.010 for poor performers)): <ul style="list-style-type: none"> If %D > 20 ($> 50\%$ for poor performers), then J-flag positive results and UJ-flag non-detects If RF < 0.050 (< 0.010 for poor performers), then UJ-flag non-detected semivolatile target compounds 				≤ 20). Positive bias is indicated by the CCV percent difference; therefore, J flag detected 2-methyl naphthalene result in associated samples ² .	
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when %R > Upper Control Limit (UCL) and J/R-flag results when %R < Lower Control Limit (LCL).	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects		✓		LCS only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓				
24. Is the MS/MSD parent sample a project-specific sample?	✓			<ul style="list-style-type: none"> Prep Batch 134455: 680-87318-4 (CV0005C-CS), MS/MSD Prep Batch 134472: 680-87279-21 (Batch sample), MS/MSD 	
25. Were MS/MSD recoveries within laboratory/project specifications? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i> <ul style="list-style-type: none"> If the native sample concentration $> 4x$ spiking level, then an evaluation of interference is not possible. If either MS or MSD recovery meets control limits, qualification of data is not warranted. MS and MSD %R < 10: J and R Flag positive and ND results, respectively MS and MSD %R > 10 and $< LCL$: J-Flag positive and UJ- 	✓				

² 680-87318-1 through 3

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
flag non-detect results <ul style="list-style-type: none"> MS and MSD R% >UCL (or 140): J-Flag positive results 					
26. Were laboratory criteria met for precision during the MS/MSD analysis? <i>Only QC results for project samples that are reported under this Job ID are evaluated.</i> <ul style="list-style-type: none"> If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. If %RPD > UCL, J-flag positive result and UJ-flag non-detect result 	✓				
27. Were surrogate recoveries within lab/project specifications? <ul style="list-style-type: none"> If %R <10, then J-flag positive and R-flag non-detect associated sample results If %R >UCL, then J-flag positive results %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results If 1 %R >UCL and 1 %R ≥10%, but <LCL, then J-flag positive results and UJ-flag non-detect results 	✓				
28. Were internal standard (IS) results within lab/project specifications? <ul style="list-style-type: none"> If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-detect associated sample results If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data. The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met. 	✓				
	✓			Refer to Attachment C (Case Narrative)	

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
29. Were lab comments included in report?					
Comments: The data validation was conducted in accordance with the <i>Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1</i> (OTIE, October 2012). The data review process was modeled after the <i>USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Organic Methods Data Review</i> (EPA, October 1999) and <i>USEPA CLP NFG for Low Concentration Organic Methods Data Review</i> (EPA, June 2001). Sample results have been qualified based on the results of the data review process (Attachment D). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.					

DV Flag Definitions:

- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- R The sample results are unusable. The analyte may or may not be present in the sample.
- U The analyte was analyzed for, but was not detected above the associated level; blank contamination may exist.
- UJ The analyte was not detected above the limit, and the limit is approximate and may be inaccurate or imprecise.

ATTACHMENT A
SAMPLE SUMMARY

Sample Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87318-1
SDG: 68087318-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-87318-1	CV0005A-CS	Solid	02/07/13 10:02	02/09/13 10:33
680-87318-2	CV0005B-CS	Solid	02/07/13 10:17	02/09/13 10:33
680-87318-3	CV0005B-CSD	Solid	02/07/13 10:19	02/09/13 10:33
680-87318-4	CV0005C-CS	Solid	02/07/13 10:23	02/09/13 10:33
680-87318-5	CV0005AB-GS	Solid	02/07/13 10:33	02/09/13 10:33
680-87318-6	CV0005D-CS	Solid	02/07/13 10:44	02/09/13 10:33
680-87318-7	CV0005E-CS	Solid	02/07/13 10:53	02/09/13 10:33
680-87318-8	CV0005E-CSD	Solid	02/07/13 10:57	02/09/13 10:33
680-87318-9	CV0005F-CS	Solid	02/07/13 11:01	02/09/13 10:33
680-87318-10	CV0005G-CS	Solid	02/07/13 11:25	02/09/13 10:33
680-87318-11	CV0005G-CSD	Solid	02/07/13 11:28	02/09/13 10:33
680-87318-12	CV0005H-CS	Solid	02/07/13 11:30	02/09/13 10:33
680-87318-13	CV0005I-CS	Solid	02/07/13 11:53	02/09/13 10:33
680-87318-14	CV0005J-CS	Solid	02/07/13 11:50	02/09/13 10:33
680-87318-15	CV0005J-CSD	Solid	02/07/13 11:52	02/09/13 10:33
680-87318-16	CV0005K-CS	Solid	02/07/13 11:55	02/09/13 10:33
680-87318-17	CV0005L-CS	Solid	02/07/13 11:54	02/09/13 10:33
680-87318-18	CV0005M-CS	Solid	02/07/13 11:56	02/09/13 10:33
680-87318-19	CV0005M-CSD	Solid	02/07/13 11:58	02/09/13 10:33
680-87318-20	CV0005N-CS	Solid	02/07/13 12:03	02/09/13 10:33

ATTACHMENT B
FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results

Attachment B

Analyte	CV0005B-CS (680-87318-2)	RL	CV0005B-CSD (680-87318-3)	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene	64	53	25	53	µg/kg	265	NA	39	106	None, absolute difference ≤ 2x Avg RL
Anthracene	74	11	86	11	µg/kg	55	15	NA	NA	None, RPD ≤ 50%
Benzo(a)anthracene	300	11	270	11	µg/kg	55	11	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	230	14	160	14	µg/kg	70	36	NA	NA	None, RPD ≤ 50%
Benzo(b)fluoranthene	320	16	250	16	µg/kg	80	25	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	210	27	140	26	µg/kg	132.5	40	NA	NA	None, RPD ≤ 50%
Benzo(k)fluoranthene	120	11	120	11	µg/kg	55	0	NA	NA	None, RPD ≤ 50%
Chrysene	280	12	240	12	µg/kg	60	15	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	64	27	51	26	µg/kg	132.5	NA	13	53	None, absolute difference ≤ 2x Avg RL
Fluoranthene	450	27	380	26	µg/kg	132.5	17	NA	NA	None, RPD ≤ 50%
Fluorene	20	27	18	26	µg/kg	132.5	NA	2	53	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	190	27	150	26	µg/kg	132.5	24	NA	NA	None, RPD ≤ 50%
1-Methylnaphthalene	62	53	35	53	µg/kg	265	NA	27	106	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	77	53	42	53	µg/kg	265	NA	35	106	None, absolute difference ≤ 2x Avg RL
Naphthalene	74	53	40	53	µg/kg	265	NA	34	106	None, absolute difference ≤ 2x Avg RL
Phenanthrene	360	11	290	11	µg/kg	55	22	NA	NA	None, RPD ≤ 50%
Pyrene	390	27	300	26	µg/kg	132.5	26	NA	NA	None, RPD ≤ 50%

Analyte	CV0005E-CS (680-87318-7)	RL	CV0005E-CSD (680-87318-8)	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthene		110	33	130	µg/kg	600	NA	33	240	None, absolute difference ≤ 2x Avg RL
Acenaphthylene	22	44	88	54	µg/kg	245	NA	66	98	None, absolute difference ≤ 2x Avg RL
Anthracene	26	9.3	120	11	µg/kg	50.75	NA	94	20.3	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(a)anthracene	160	8.8	730	11	µg/kg	49.5	128	NA	NA	J/UJ-flag, RPD > 50%
Benzo(a)pyrene	190	11	820	14	µg/kg	62.5	125	NA	NA	J/UJ-flag, RPD > 50%
Benzo(b)fluoranthene	290	13	1400	16	µg/kg	72.5	131	NA	NA	J/UJ-flag, RPD > 50%
Benzo(g,h,i)perylene	150	22	620	27	µg/kg	122.5	122	NA	NA	J/UJ-flag, RPD > 50%
Benzo(k)fluoranthene	120	8.8	440	11	µg/kg	49.5	114	NA	NA	J/UJ-flag, RPD > 50%
Chrysene	200	9.9	810	12	µg/kg	54.75	121	NA	NA	J/UJ-flag, RPD > 50%
Dibenzo(a,h)anthracene	39	22	180	27	µg/kg	122.5	NA	141	49	J/UJ-flag, absolute difference > 2x Avg RL
Fluoranthene	280	22	1300	27	µg/kg	122.5	129	NA	NA	J/UJ-flag, RPD > 50%
Fluorene	8.8	22	35	27	µg/kg	122.5	NA	26.2	49	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	120	22	490	27	µg/kg	122.5	NA	370	49	J/UJ-flag, absolute difference > 2x Avg RL
1-Methylnaphthalene	37	44	120	54	µg/kg	245	NA	83	98	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	50	44	140	54	µg/kg	245	NA	90	98	None, absolute difference ≤ 2x Avg RL
Naphthalene	54	44	140	54	µg/kg	245	NA	86	98	None, absolute difference ≤ 2x Avg RL
Phenanthrene	130	8.8	580	11	µg/kg	49.5	127	NA	NA	J/UJ-flag, RPD > 50%
Pyrene	270	22	1200	27	µg/kg	122.5	127	NA	NA	J/UJ-flag, RPD > 50%

Analyte	CV0005G-CS (680-87318-10)	RL	CV0005G-CSD (680-87318-11)	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthene		100	25	120	µg/kg	550	NA	25	220	None, absolute difference ≤ 2x Avg RL
Acenaphthylene	18	41	73	50	µg/kg	227.5	NA	55	91	None, absolute difference ≤ 2x Avg RL
Anthracene	19	8.6	70	10	µg/kg	46.5	NA	51	18.6	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(a)anthracene	140	8.2	440	10	µg/kg	45.5	103	NA	NA	J/UJ-flag, RPD > 50%
Benzo(a)pyrene	150	11	500	13	µg/kg	60	108	NA	NA	J/UJ-flag, RPD > 50%
Benzo(b)fluoranthene	230	12	900	15	µg/kg	67.5	119	NA	NA	J/UJ-flag, RPD > 50%
Benzo(g,h,i)perylene	120	20	380	25	µg/kg	112.5	104	NA	NA	J/UJ-flag, RPD > 50%
Benzo(k)fluoranthene	97	8.2	290	10	µg/kg	45.5	100	NA	NA	J/UJ-flag, RPD > 50%
Chrysene	170	9.2	610	11	µg/kg	50.5	113	NA	NA	J/UJ-flag, RPD > 50%
Dibenzo(a,h)anthracene	33	20	110	25	µg/kg	112.5	NA	77	45	J/UJ-flag, absolute difference > 2x Avg RL
Fluoranthene	230	20	1500	25	µg/kg	112.5	147	NA	NA	J/UJ-flag, RPD > 50%
Fluorene	7.6	20	40	25	µg/kg	112.5	NA	32.4	45	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	99	20	310	25	µg/kg	112.5	NA	211	45	J/UJ-flag, absolute difference > 2x Avg RL
1-Methylnaphthalene	55	41	80	50	µg/kg	227.5	NA	25	91	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	59	41	79	50	µg/kg	227.5	NA	20	91	None, absolute difference ≤ 2x Avg RL
Naphthalene	49	41	85	50	µg/kg	227.5	NA	36	91	None, absolute difference ≤ 2x Avg RL
Phenanthrene	150	8.2	940	10	µg/kg	45.5	145	NA	NA	J/UJ-flag, RPD > 50%
Pyrene	210	20	1200	25	µg/kg	112.5	140	NA	NA	J/UJ-flag, RPD > 50%

Evaluation of Field Duplicate Results

Attachment B

Analyte	CV0005J-CS (680-87318-14)	RL	CV0005J-CSD (680-87318-15)	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthylene		40	8.5	41	µg/kg	202.5	NA	8.5	81	None, absolute difference ≤ 2x Avg RL
Anthracene	4.5	8.3	16	8.7	µg/kg	42.5	NA	11.5	17	None, absolute difference ≤ 2x Avg RL
Benzo(a)anthracene	25	7.9	60	8.3	µg/kg	40.5	NA	35	16.2	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(a)pyrene	21	10	59	11	µg/kg	52.5	NA	38	21	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(b)fluoranthene	44	12	110	13	µg/kg	62.5	NA	66	25	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(g,h,i)perylene	16	20	54	21	µg/kg	102.5	NA	38	41	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	10	7.9	32	8.3	µg/kg	40.5	NA	22	16.2	J/UJ-flag, absolute difference > 2x Avg RL
Chrysene	29	8.9	73	9.3	µg/kg	45.5	NA	44	18.2	J/UJ-flag, absolute difference > 2x Avg RL
Dibenzo(a,h)anthracene	5.3	20	16	21	µg/kg	102.5	NA	10.7	41	None, absolute difference ≤ 2x Avg RL
Fluoranthene	41	20	120	21	µg/kg	102.5	NA	79	41	J/UJ-flag, absolute difference > 2x Avg RL
Fluorene		20	5.6	21	µg/kg	102.5	NA	5.6	41	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	13	20	47	21	µg/kg	102.5	NA	34	41	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	11	40	25	41	µg/kg	202.5	NA	14	81	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	14	40	25	41	µg/kg	202.5	NA	11	81	None, absolute difference ≤ 2x Avg RL
Naphthalene	14	40	27	41	µg/kg	202.5	NA	13	81	None, absolute difference ≤ 2x Avg RL
Phenanthrene	27	7.9	73	8.3	µg/kg	40.5	NA	46	16.2	J/UJ-flag, absolute difference > 2x Avg RL
Pyrene	38	20	110	21	µg/kg	102.5	NA	72	41	J/UJ-flag, absolute difference > 2x Avg RL

Analyte	CV0005M-CS (680-87318-18)	RL	CV0005M-CSD (680-87318-19)	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Acenaphthene		110	24	100	µg/kg	525	NA	24	210	None, absolute difference ≤ 2x Avg RL
Acenaphthylene	21	43	11	41	µg/kg	210	NA	10	84	None, absolute difference ≤ 2x Avg RL
Anthracene	18	8.9	53	8.7	µg/kg	44	NA	35	17.6	J/UJ-flag, absolute difference > 2x Avg RL
Benzo(a)anthracene	110	8.5	170	8.3	µg/kg	42	43	NA	NA	None, RPD ≤ 50%
Benzo(a)pyrene	120	11	160	11	µg/kg	55	29	NA	NA	None, RPD ≤ 50%
Benzo(b)fluoranthene	200	13	270	13	µg/kg	65	30	NA	NA	None, RPD ≤ 50%
Benzo(g,h,i)perylene	100	21	120	21	µg/kg	105	NA	20	42	None, absolute difference ≤ 2x Avg RL
Benzo(k)fluoranthene	61	8.5	79	8.3	µg/kg	42	26	NA	NA	None, RPD ≤ 50%
Chrysene	110	9.6	170	9.3	µg/kg	47.25	43	NA	NA	None, RPD ≤ 50%
Dibenzo(a,h)anthracene	22	21	28	21	µg/kg	105	NA	6	42	None, absolute difference ≤ 2x Avg RL
Fluoranthene	190	21	410	21	µg/kg	105	73	NA	NA	J/UJ-flag, RPD > 50%
Fluorene	4.6	21	23	21	µg/kg	105	NA	18.4	42	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	80	21	93	21	µg/kg	105	NA	13	42	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	26	43	30	41	µg/kg	210	NA	4	84	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	26	43	36	41	µg/kg	210	NA	10	84	None, absolute difference ≤ 2x Avg RL
Naphthalene	24	43	59	41	µg/kg	210	NA	35	84	None, absolute difference ≤ 2x Avg RL
Phenanthrene	95	8.5	270	8.3	µg/kg	42	96	NA	NA	J/UJ-flag, RPD > 50%
Pyrene	190	21	360	21	µg/kg	105	62	NA	NA	J/UJ-flag, RPD > 50%

Note: If the analyte was not detected, then the cell was left blank.

µg/kg - micrograms per kilogram

J - Estimated value

NA - Not applicable

RL - Reporting limit

RPD - Relative percent difference

UJ - Not detected and the limit is estimated

Precision is based on either the absolute difference between sample results or RPD. If the sample results are less than or equal to 5x's the RL, then precision is based on the absolute difference between duplicate results. If sample results >5x's RL, then precision is evaluated using RPD. J-Flag sample results whenever the absolute difference is greater than the RL (2x for soils) or the RPD >20% (50% for soil). Table above presents the results for detected analytes only.

ATTACHMENT C
CASE NARRATIVE

Case Narrative

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87318-1
SDG: 68087318-1

Job ID: 680-87318-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Oneida Total Integrated Enterprises LLC

Project: 35th Avenue Superfund Site

Report Number: 680-87318-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 02/09/2013; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.2° C and 2.8° C.

SEMIVOLATILE ORGANIC COMPOUNDS BY GCMS - LOW LEVEL

Samples CV0005A-CS (680-87318-1), CV0005B-CS (680-87318-2), CV0005B-CSD (680-87318-3), CV0005C-CS (680-87318-4), CV0005AB-GS (680-87318-5), CV0005D-CS (680-87318-6), CV0005E-CS (680-87318-7), CV0005E-CSD (680-87318-8), CV0005F-CS (680-87318-9), CV0005G-CS (680-87318-10), CV0005G-CSD (680-87318-11), CV0005H-CS (680-87318-12), CV0005I-CS (680-87318-13), CV0005J-CS (680-87318-14), CV0005J-CSD (680-87318-15), CV0005K-CS (680-87318-16), CV0005L-CS (680-87318-17), CV0005M-CS (680-87318-18), CV0005M-CSD (680-87318-19) and CV0005N-CS (680-87318-20) were analyzed for Semivolatile Organic Compounds by GCMS - Low Level in accordance with EPA SW-846 Method 8270C. The samples were prepared on 02/14/2013 and analyzed on 02/15/2013 and 02/18/2013.

Samples CV0005AB-GS (680-87318-5)[4X] and CV0005F-CS (680-87318-9)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the Semivolatile Organic Compounds by GCMS - Low Level analyses.

All quality control parameters were within the acceptance limits.

ATTACHMENT D
QUALIFIED SAMPLE RESULTS

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87318-1
SDG: 68087318-1

Client Sample ID: CV0005A-CS

Date Collected: 02/07/13 10:02

Date Received: 02/09/13 10:33

Lab Sample ID: 680-87318-1

Matrix: Solid

Percent Solids: 95.5

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	21	ug/Kg	☆	02/14/13 08:35	02/15/13 20:09	1
Acenaphthylene	38	J	41	5.2	ug/Kg	☆	02/14/13 08:35	02/15/13 20:09	1
Anthracene	54		8.7	4.4	ug/Kg	☆	02/14/13 08:35	02/15/13 20:09	1
Benzo[a]anthracene	180		8.3	4.0	ug/Kg	☆	02/14/13 08:35	02/15/13 20:09	1
Benzo[a]pyrene	130		11	5.4	ug/Kg	☆	02/14/13 08:35	02/15/13 20:09	1
Benzo[b]fluoranthene	200		13	6.3	ug/Kg	☆	02/14/13 08:35	02/15/13 20:09	1
Benzo[g,h,i]perylene	130		21	4.6	ug/Kg	☆	02/14/13 08:35	02/15/13 20:09	1
Benzo[k]fluoranthene	68		8.3	3.7	ug/Kg	☆	02/14/13 08:35	02/15/13 20:09	1
Chrysene	200		9.3	4.7	ug/Kg	☆	02/14/13 08:35	02/15/13 20:09	1
Dibenz(a,h)anthracene	48		21	4.2	ug/Kg	☆	02/14/13 08:35	02/15/13 20:09	1
Fluoranthene	340		21	4.1	ug/Kg	☆	02/14/13 08:35	02/15/13 20:09	1
Fluorene	13	J	21	4.2	ug/Kg	☆	02/14/13 08:35	02/15/13 20:09	1
Indeno[1,2,3-cd]pyrene	120		21	7.4	ug/Kg	☆	02/14/13 08:35	02/15/13 20:09	1
1-Methylnaphthalene	37	J	41	4.6	ug/Kg	☆	02/14/13 08:35	02/15/13 20:09	1
2-Methylnaphthalene	40	J	41	7.4	ug/Kg	☆	02/14/13 08:35	02/15/13 20:09	1
Naphthalene	50		41	4.6	ug/Kg	☆	02/14/13 08:35	02/15/13 20:09	1
Phenanthrene	270		8.3	4.0	ug/Kg	☆	02/14/13 08:35	02/15/13 20:09	1
Pyrene	270		21	3.8	ug/Kg	☆	02/14/13 08:35	02/15/13 20:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	86		30 - 130				02/14/13 08:35	02/15/13 20:09	1

Client Sample ID: CV0005B-CS

Date Collected: 02/07/13 10:17

Date Received: 02/09/13 10:33

Lab Sample ID: 680-87318-2

Matrix: Solid

Percent Solids: 74.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	27	ug/Kg	☆	02/14/13 08:35	02/15/13 20:24	1
Acenaphthylene	64		53	6.6	ug/Kg	☆	02/14/13 08:35	02/15/13 20:24	1
Anthracene	74		11	5.6	ug/Kg	☆	02/14/13 08:35	02/15/13 20:24	1
Benzo[a]anthracene	300		11	5.2	ug/Kg	☆	02/14/13 08:35	02/15/13 20:24	1
Benzo[a]pyrene	230		14	6.9	ug/Kg	☆	02/14/13 08:35	02/15/13 20:24	1
Benzo[b]fluoranthene	320		16	8.1	ug/Kg	☆	02/14/13 08:35	02/15/13 20:24	1
Benzo[g,h,i]perylene	210		27	5.8	ug/Kg	☆	02/14/13 08:35	02/15/13 20:24	1
Benzo[k]fluoranthene	120		11	4.8	ug/Kg	☆	02/14/13 08:35	02/15/13 20:24	1
Chrysene	280		12	6.0	ug/Kg	☆	02/14/13 08:35	02/15/13 20:24	1
Dibenz(a,h)anthracene	64		27	5.4	ug/Kg	☆	02/14/13 08:35	02/15/13 20:24	1
Fluoranthene	450		27	5.3	ug/Kg	☆	02/14/13 08:35	02/15/13 20:24	1
Fluorene	20	J	27	5.4	ug/Kg	☆	02/14/13 08:35	02/15/13 20:24	1
Indeno[1,2,3-cd]pyrene	190		27	9.4	ug/Kg	☆	02/14/13 08:35	02/15/13 20:24	1
1-Methylnaphthalene	62		53	5.8	ug/Kg	☆	02/14/13 08:35	02/15/13 20:24	1
2-Methylnaphthalene	77	J	53	9.4	ug/Kg	☆	02/14/13 08:35	02/15/13 20:24	1
Naphthalene	74		53	5.8	ug/Kg	☆	02/14/13 08:35	02/15/13 20:24	1
Phenanthrene	360		11	5.2	ug/Kg	☆	02/14/13 08:35	02/15/13 20:24	1
Pyrene	390		27	4.9	ug/Kg	☆	02/14/13 08:35	02/15/13 20:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	68		30 - 130				02/14/13 08:35	02/15/13 20:24	1

TestAmerica Savannah

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87318-1
SDG: 68087318-1

Client Sample ID: CV0005B-CSD

Lab Sample ID: 680-87318-3

Date Collected: 02/07/13 10:19

Matrix: Solid

Date Received: 02/09/13 10:33

Percent Solids: 73.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	130	U	130	26	ug/Kg	☆	02/14/13 08:35	02/15/13 20:39	1
Acenaphthylene	25	J	53	6.6	ug/Kg	☆	02/14/13 08:35	02/15/13 20:39	1
Anthracene	86		11	5.6	ug/Kg	☆	02/14/13 08:35	02/15/13 20:39	1
Benzo[a]anthracene	270		11	5.2	ug/Kg	☆	02/14/13 08:35	02/15/13 20:39	1
Benzo[a]pyrene	160		14	6.9	ug/Kg	☆	02/14/13 08:35	02/15/13 20:39	1
Benzo[b]fluoranthene	250		16	8.1	ug/Kg	☆	02/14/13 08:35	02/15/13 20:39	1
Benzo[g,h,i]perylene	140		26	5.8	ug/Kg	☆	02/14/13 08:35	02/15/13 20:39	1
Benzo[k]fluoranthene	120		11	4.8	ug/Kg	☆	02/14/13 08:35	02/15/13 20:39	1
Chrysene	240		12	6.0	ug/Kg	☆	02/14/13 08:35	02/15/13 20:39	1
Dibenz(a,h)anthracene	51		26	5.4	ug/Kg	☆	02/14/13 08:35	02/15/13 20:39	1
Fluoranthene	380		26	5.3	ug/Kg	☆	02/14/13 08:35	02/15/13 20:39	1
Fluorene	18	J	26	5.4	ug/Kg	☆	02/14/13 08:35	02/15/13 20:39	1
Indeno[1,2,3-cd]pyrene	150		26	9.4	ug/Kg	☆	02/14/13 08:35	02/15/13 20:39	1
1-Methylnaphthalene	35	J	53	5.8	ug/Kg	☆	02/14/13 08:35	02/15/13 20:39	1
2-Methylnaphthalene	42	J	53	9.4	ug/Kg	☆	02/14/13 08:35	02/15/13 20:39	1
Naphthalene	40	J	53	5.8	ug/Kg	☆	02/14/13 08:35	02/15/13 20:39	1
Phenanthrene	290		11	5.2	ug/Kg	☆	02/14/13 08:35	02/15/13 20:39	1
Pyrene	300		26	4.9	ug/Kg	☆	02/14/13 08:35	02/15/13 20:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	73		30 - 130				02/14/13 08:35	02/15/13 20:39	1

Client Sample ID: CV0005C-CS

Lab Sample ID: 680-87318-4

Date Collected: 02/07/13 10:23

Matrix: Solid

Date Received: 02/09/13 10:33

Percent Solids: 92.0

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	22	ug/Kg	☆	02/14/13 08:35	02/18/13 15:23	1
Acenaphthylene	19	J	43	5.4	ug/Kg	☆	02/14/13 08:35	02/18/13 15:23	1
Anthracene	16		9.1	4.6	ug/Kg	☆	02/14/13 08:35	02/18/13 15:23	1
Benzo[a]anthracene	100		8.7	4.2	ug/Kg	☆	02/14/13 08:35	02/18/13 15:23	1
Benzo[a]pyrene	93		11	5.6	ug/Kg	☆	02/14/13 08:35	02/18/13 15:23	1
Benzo[b]fluoranthene	150		13	6.6	ug/Kg	☆	02/14/13 08:35	02/18/13 15:23	1
Benzo[g,h,i]perylene	79		22	4.8	ug/Kg	☆	02/14/13 08:35	02/18/13 15:23	1
Benzo[k]fluoranthene	62		8.7	3.9	ug/Kg	☆	02/14/13 08:35	02/18/13 15:23	1
Chrysene	100		9.8	4.9	ug/Kg	☆	02/14/13 08:35	02/18/13 15:23	1
Dibenz(a,h)anthracene	18	J	22	4.5	ug/Kg	☆	02/14/13 08:35	02/18/13 15:23	1
Fluoranthene	160		22	4.3	ug/Kg	☆	02/14/13 08:35	02/18/13 15:23	1
Fluorene	4.6	J	22	4.5	ug/Kg	☆	02/14/13 08:35	02/18/13 15:23	1
Indeno[1,2,3-cd]pyrene	58		22	7.7	ug/Kg	☆	02/14/13 08:35	02/18/13 15:23	1
1-Methylnaphthalene	35	J	43	4.8	ug/Kg	☆	02/14/13 08:35	02/18/13 15:23	1
2-Methylnaphthalene	37	J	43	7.7	ug/Kg	☆	02/14/13 08:35	02/18/13 15:23	1
Naphthalene	40	J	43	4.8	ug/Kg	☆	02/14/13 08:35	02/18/13 15:23	1
Phenanthrene	73		8.7	4.2	ug/Kg	☆	02/14/13 08:35	02/18/13 15:23	1
Pyrene	140		22	4.0	ug/Kg	☆	02/14/13 08:35	02/18/13 15:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	69		30 - 130				02/14/13 08:35	02/18/13 15:23	1

TestAmerica Savannah

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87318-1
SDG: 68087318-1

Client Sample ID: CV0005AB-GS

Lab Sample ID: 680-87318-5

Date Collected: 02/07/13 10:33

Matrix: Solid

Date Received: 02/09/13 10:33

Percent Solids: 94.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	420	U	420	85	ug/Kg	☆	02/14/13 08:35	02/18/13 17:49	4
Acenaphthylene	21	J	170	21	ug/Kg	☆	02/14/13 08:35	02/18/13 17:49	4
Anthracene	33	J	36	18	ug/Kg	☆	02/14/13 08:35	02/18/13 17:49	4
Benzo[a]anthracene	220		34	17	ug/Kg	☆	02/14/13 08:35	02/18/13 17:49	4
Benzo[a]pyrene	170		44	22	ug/Kg	☆	02/14/13 08:35	02/18/13 17:49	4
Benzo[b]fluoranthene	370		52	26	ug/Kg	☆	02/14/13 08:35	02/18/13 17:49	4
Benzo[g,h,i]perylene	140		85	19	ug/Kg	☆	02/14/13 08:35	02/18/13 17:49	4
Benzo[k]fluoranthene	98		34	15	ug/Kg	☆	02/14/13 08:35	02/18/13 17:49	4
Chrysene	250		38	19	ug/Kg	☆	02/14/13 08:35	02/18/13 17:49	4
Dibenz(a,h)anthracene	51	J	85	17	ug/Kg	☆	02/14/13 08:35	02/18/13 17:49	4
Fluoranthene	330		85	17	ug/Kg	☆	02/14/13 08:35	02/18/13 17:49	4
Fluorene	18	J	85	17	ug/Kg	☆	02/14/13 08:35	02/18/13 17:49	4
Indeno[1,2,3-cd]pyrene	120		85	30	ug/Kg	☆	02/14/13 08:35	02/18/13 17:49	4
1-Methylnaphthalene	89	J	170	19	ug/Kg	☆	02/14/13 08:35	02/18/13 17:49	4
2-Methylnaphthalene	120	J	170	30	ug/Kg	☆	02/14/13 08:35	02/18/13 17:49	4
Naphthalene	94	J	170	19	ug/Kg	☆	02/14/13 08:35	02/18/13 17:49	4
Phenanthrene	190		34	17	ug/Kg	☆	02/14/13 08:35	02/18/13 17:49	4
Pyrene	270		85	16	ug/Kg	☆	02/14/13 08:35	02/18/13 17:49	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	89		30 - 130				02/14/13 08:35	02/18/13 17:49	4

Client Sample ID: CV0005D-CS

Lab Sample ID: 680-87318-6

Date Collected: 02/07/13 10:44

Matrix: Solid

Date Received: 02/09/13 10:33

Percent Solids: 93.4

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	21	ug/Kg	☆	02/14/13 11:19	02/15/13 14:51	1
Acenaphthylene	26	J	43	5.3	ug/Kg	☆	02/14/13 11:19	02/15/13 14:51	1
Anthracene	38		8.9	4.5	ug/Kg	☆	02/14/13 11:19	02/15/13 14:51	1
Benzo[a]anthracene	240		8.5	4.2	ug/Kg	☆	02/14/13 11:19	02/15/13 14:51	1
Benzo[a]pyrene	250		11	5.5	ug/Kg	☆	02/14/13 11:19	02/15/13 14:51	1
Benzo[b]fluoranthene	440		13	6.5	ug/Kg	☆	02/14/13 11:19	02/15/13 14:51	1
Benzo[g,h,i]perylene	210		21	4.7	ug/Kg	☆	02/14/13 11:19	02/15/13 14:51	1
Benzo[k]fluoranthene	130		8.5	3.8	ug/Kg	☆	02/14/13 11:19	02/15/13 14:51	1
Chrysene	270		9.6	4.8	ug/Kg	☆	02/14/13 11:19	02/15/13 14:51	1
Dibenz(a,h)anthracene	58		21	4.4	ug/Kg	☆	02/14/13 11:19	02/15/13 14:51	1
Fluoranthene	420		21	4.3	ug/Kg	☆	02/14/13 11:19	02/15/13 14:51	1
Fluorene	16	J	21	4.4	ug/Kg	☆	02/14/13 11:19	02/15/13 14:51	1
Indeno[1,2,3-cd]pyrene	160		21	7.6	ug/Kg	☆	02/14/13 11:19	02/15/13 14:51	1
1-Methylnaphthalene	72		43	4.7	ug/Kg	☆	02/14/13 11:19	02/15/13 14:51	1
2-Methylnaphthalene	88		43	7.6	ug/Kg	☆	02/14/13 11:19	02/15/13 14:51	1
Naphthalene	83		43	4.7	ug/Kg	☆	02/14/13 11:19	02/15/13 14:51	1
Phenanthrene	220		8.5	4.2	ug/Kg	☆	02/14/13 11:19	02/15/13 14:51	1
Pyrene	390		21	3.9	ug/Kg	☆	02/14/13 11:19	02/15/13 14:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	64		30 - 130				02/14/13 11:19	02/15/13 14:51	1

TestAmerica Savannah

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87318-1
SDG: 68087318-1

Client Sample ID: CV0005E-CS

Lab Sample ID: 680-87318-7

Date Collected: 02/07/13 10:53

Matrix: Solid

Date Received: 02/09/13 10:33

Percent Solids: 88.7

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	22	ug/Kg	☆	02/14/13 11:19	02/15/13 15:28	1
Acenaphthylene	22	J	44	5.5	ug/Kg	☆	02/14/13 11:19	02/15/13 15:28	1
Anthracene	26	J	9.3	4.6	ug/Kg	☆	02/14/13 11:19	02/15/13 15:28	1
Benzo[a]anthracene	160	J	8.8	4.3	ug/Kg	☆	02/14/13 11:19	02/15/13 15:28	1
Benzo[a]pyrene	190	J	11	5.7	ug/Kg	☆	02/14/13 11:19	02/15/13 15:28	1
Benzo[b]fluoranthene	290	J	13	6.7	ug/Kg	☆	02/14/13 11:19	02/15/13 15:28	1
Benzo[g,h,i]perylene	150	J	22	4.8	ug/Kg	☆	02/14/13 11:19	02/15/13 15:28	1
Benzo[k]fluoranthene	120	J	8.8	4.0	ug/Kg	☆	02/14/13 11:19	02/15/13 15:28	1
Chrysene	200	J	9.9	5.0	ug/Kg	☆	02/14/13 11:19	02/15/13 15:28	1
Dibenz(a,h)anthracene	39	J	22	4.5	ug/Kg	☆	02/14/13 11:19	02/15/13 15:28	1
Fluoranthene	280	J	22	4.4	ug/Kg	☆	02/14/13 11:19	02/15/13 15:28	1
Fluorene	8.8	J	22	4.5	ug/Kg	☆	02/14/13 11:19	02/15/13 15:28	1
Indeno[1,2,3-cd]pyrene	120	J	22	7.8	ug/Kg	☆	02/14/13 11:19	02/15/13 15:28	1
1-Methylnaphthalene	37	J	44	4.8	ug/Kg	☆	02/14/13 11:19	02/15/13 15:28	1
2-Methylnaphthalene	50	J	44	7.8	ug/Kg	☆	02/14/13 11:19	02/15/13 15:28	1
Naphthalene	54	J	44	4.8	ug/Kg	☆	02/14/13 11:19	02/15/13 15:28	1
Phenanthrene	130	J	8.8	4.3	ug/Kg	☆	02/14/13 11:19	02/15/13 15:28	1
Pyrene	270	J	22	4.1	ug/Kg	☆	02/14/13 11:19	02/15/13 15:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	61		30 - 130				02/14/13 11:19	02/15/13 15:28	1

Client Sample ID: CV0005E-CSD

Lab Sample ID: 680-87318-8

Date Collected: 02/07/13 10:57

Matrix: Solid

Date Received: 02/09/13 10:33

Percent Solids: 74.0

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	33	J	130	27	ug/Kg	☆	02/14/13 11:19	02/15/13 15:46	1
Acenaphthylene	88	J	54	6.7	ug/Kg	☆	02/14/13 11:19	02/15/13 15:46	1
Anthracene	120	J	11	5.6	ug/Kg	☆	02/14/13 11:19	02/15/13 15:46	1
Benzo[a]anthracene	730	J	11	5.2	ug/Kg	☆	02/14/13 11:19	02/15/13 15:46	1
Benzo[a]pyrene	820	J	14	7.0	ug/Kg	☆	02/14/13 11:19	02/15/13 15:46	1
Benzo[b]fluoranthene	1400	J	16	8.2	ug/Kg	☆	02/14/13 11:19	02/15/13 15:46	1
Benzo[g,h,i]perylene	620	J	27	5.9	ug/Kg	☆	02/14/13 11:19	02/15/13 15:46	1
Benzo[k]fluoranthene	440	J	11	4.8	ug/Kg	☆	02/14/13 11:19	02/15/13 15:46	1
Chrysene	810	J	12	6.0	ug/Kg	☆	02/14/13 11:19	02/15/13 15:46	1
Dibenz(a,h)anthracene	180	J	27	5.5	ug/Kg	☆	02/14/13 11:19	02/15/13 15:46	1
Fluoranthene	1300	J	27	5.4	ug/Kg	☆	02/14/13 11:19	02/15/13 15:46	1
Fluorene	35	J	27	5.5	ug/Kg	☆	02/14/13 11:19	02/15/13 15:46	1
Indeno[1,2,3-cd]pyrene	490	J	27	9.5	ug/Kg	☆	02/14/13 11:19	02/15/13 15:46	1
1-Methylnaphthalene	120	J	54	5.9	ug/Kg	☆	02/14/13 11:19	02/15/13 15:46	1
2-Methylnaphthalene	140	J	54	9.5	ug/Kg	☆	02/14/13 11:19	02/15/13 15:46	1
Naphthalene	140	J	54	5.9	ug/Kg	☆	02/14/13 11:19	02/15/13 15:46	1
Phenanthrene	580	J	11	5.2	ug/Kg	☆	02/14/13 11:19	02/15/13 15:46	1
Pyrene	1200	J	27	5.0	ug/Kg	☆	02/14/13 11:19	02/15/13 15:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	65		30 - 130				02/14/13 11:19	02/15/13 15:46	1

TestAmerica Savannah

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87318-1
SDG: 68087318-1

Client Sample ID: CV0005F-CS

Lab Sample ID: 680-87318-9

Date Collected: 02/07/13 11:01

Matrix: Solid

Date Received: 02/09/13 10:33

Percent Solids: 96.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	410	U	410	82	ug/Kg	☆	02/14/13 11:19	02/15/13 16:04	4
Acenaphthylene	37	J	160	20	ug/Kg	☆	02/14/13 11:19	02/15/13 16:04	4
Anthracene	64		34	17	ug/Kg	☆	02/14/13 11:19	02/15/13 16:04	4
Benzo[a]anthracene	390		33	16	ug/Kg	☆	02/14/13 11:19	02/15/13 16:04	4
Benzo[a]pyrene	400		43	21	ug/Kg	☆	02/14/13 11:19	02/15/13 16:04	4
Benzo[b]fluoranthene	570		50	25	ug/Kg	☆	02/14/13 11:19	02/15/13 16:04	4
Benzo[g,h,i]perylene	290		82	18	ug/Kg	☆	02/14/13 11:19	02/15/13 16:04	4
Benzo[k]fluoranthene	230		33	15	ug/Kg	☆	02/14/13 11:19	02/15/13 16:04	4
Chrysene	420		37	18	ug/Kg	☆	02/14/13 11:19	02/15/13 16:04	4
Dibenz(a,h)anthracene	78	J	82	17	ug/Kg	☆	02/14/13 11:19	02/15/13 16:04	4
Fluoranthene	700		82	16	ug/Kg	☆	02/14/13 11:19	02/15/13 16:04	4
Fluorene	25	J	82	17	ug/Kg	☆	02/14/13 11:19	02/15/13 16:04	4
Indeno[1,2,3-cd]pyrene	290		82	29	ug/Kg	☆	02/14/13 11:19	02/15/13 16:04	4
1-Methylnaphthalene	110	J	160	18	ug/Kg	☆	02/14/13 11:19	02/15/13 16:04	4
2-Methylnaphthalene	130	J	160	29	ug/Kg	☆	02/14/13 11:19	02/15/13 16:04	4
Naphthalene	130	J	160	18	ug/Kg	☆	02/14/13 11:19	02/15/13 16:04	4
Phenanthrene	370		33	16	ug/Kg	☆	02/14/13 11:19	02/15/13 16:04	4
Pyrene	640		82	15	ug/Kg	☆	02/14/13 11:19	02/15/13 16:04	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	76		30 - 130				02/14/13 11:19	02/15/13 16:04	4

Client Sample ID: CV0005G-CS

Lab Sample ID: 680-87318-10

Date Collected: 02/07/13 11:25

Matrix: Solid

Date Received: 02/09/13 10:33

Percent Solids: 97.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg	☆	02/14/13 11:19	02/15/13 16:23	1
Acenaphthylene	18	J	41	5.1	ug/Kg	☆	02/14/13 11:19	02/15/13 16:23	1
Anthracene	19	J	8.6	4.3	ug/Kg	☆	02/14/13 11:19	02/15/13 16:23	1
Benzo[a]anthracene	140	J	8.2	4.0	ug/Kg	☆	02/14/13 11:19	02/15/13 16:23	1
Benzo[a]pyrene	150	J	11	5.3	ug/Kg	☆	02/14/13 11:19	02/15/13 16:23	1
Benzo[b]fluoranthene	230	J	12	6.2	ug/Kg	☆	02/14/13 11:19	02/15/13 16:23	1
Benzo[g,h,i]perylene	120	J	20	4.5	ug/Kg	☆	02/14/13 11:19	02/15/13 16:23	1
Benzo[k]fluoranthene	97	J	8.2	3.7	ug/Kg	☆	02/14/13 11:19	02/15/13 16:23	1
Chrysene	170	J	9.2	4.6	ug/Kg	☆	02/14/13 11:19	02/15/13 16:23	1
Dibenz(a,h)anthracene	33	J	20	4.2	ug/Kg	☆	02/14/13 11:19	02/15/13 16:23	1
Fluoranthene	230	J	20	4.1	ug/Kg	☆	02/14/13 11:19	02/15/13 16:23	1
Fluorene	7.6	J	20	4.2	ug/Kg	☆	02/14/13 11:19	02/15/13 16:23	1
Indeno[1,2,3-cd]pyrene	99	J	20	7.2	ug/Kg	☆	02/14/13 11:19	02/15/13 16:23	1
1-Methylnaphthalene	55		41	4.5	ug/Kg	☆	02/14/13 11:19	02/15/13 16:23	1
2-Methylnaphthalene	59		41	7.2	ug/Kg	☆	02/14/13 11:19	02/15/13 16:23	1
Naphthalene	49		41	4.5	ug/Kg	☆	02/14/13 11:19	02/15/13 16:23	1
Phenanthrene	150	J	8.2	4.0	ug/Kg	☆	02/14/13 11:19	02/15/13 16:23	1
Pyrene	210	J	20	3.8	ug/Kg	☆	02/14/13 11:19	02/15/13 16:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	64		30 - 130				02/14/13 11:19	02/15/13 16:23	1

TestAmerica Savannah

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87318-1
SDG: 68087318-1

Client Sample ID: CV0005G-CSD

Lab Sample ID: 680-87318-11

Date Collected: 02/07/13 11:28

Matrix: Solid

Date Received: 02/09/13 10:33

Percent Solids: 78.9

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	25	J	120	25	ug/Kg	☆	02/14/13 11:19	02/15/13 16:41	1
Acenaphthylene	73		50	6.2	ug/Kg	☆	02/14/13 11:19	02/15/13 16:41	1
Anthracene	70	J	10	5.2	ug/Kg	☆	02/14/13 11:19	02/15/13 16:41	1
Benzo[a]anthracene	440	J	10	4.9	ug/Kg	☆	02/14/13 11:19	02/15/13 16:41	1
Benzo[a]pyrene	500	J	13	6.5	ug/Kg	☆	02/14/13 11:19	02/15/13 16:41	1
Benzo[b]fluoranthene	900	J	15	7.6	ug/Kg	☆	02/14/13 11:19	02/15/13 16:41	1
Benzo[g,h,i]perylene	380	J	25	5.5	ug/Kg	☆	02/14/13 11:19	02/15/13 16:41	1
Benzo[k]fluoranthene	290	J	10	4.5	ug/Kg	☆	02/14/13 11:19	02/15/13 16:41	1
Chrysene	610	J	11	5.6	ug/Kg	☆	02/14/13 11:19	02/15/13 16:41	1
Dibenz(a,h)anthracene	110	J	25	5.1	ug/Kg	☆	02/14/13 11:19	02/15/13 16:41	1
Fluoranthene	1500	J	25	5.0	ug/Kg	☆	02/14/13 11:19	02/15/13 16:41	1
Fluorene	40		25	5.1	ug/Kg	☆	02/14/13 11:19	02/15/13 16:41	1
Indeno[1,2,3-cd]pyrene	310	J	25	8.9	ug/Kg	☆	02/14/13 11:19	02/15/13 16:41	1
1-Methylnaphthalene	80		50	5.5	ug/Kg	☆	02/14/13 11:19	02/15/13 16:41	1
2-Methylnaphthalene	79		50	8.9	ug/Kg	☆	02/14/13 11:19	02/15/13 16:41	1
Naphthalene	85		50	5.5	ug/Kg	☆	02/14/13 11:19	02/15/13 16:41	1
Phenanthrene	940	J	10	4.9	ug/Kg	☆	02/14/13 11:19	02/15/13 16:41	1
Pyrene	1200	J	25	4.6	ug/Kg	☆	02/14/13 11:19	02/15/13 16:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	72		30 - 130				02/14/13 11:19	02/15/13 16:41	1

Client Sample ID: CV0005H-CS

Lab Sample ID: 680-87318-12

Date Collected: 02/07/13 11:30

Matrix: Solid

Date Received: 02/09/13 10:33

Percent Solids: 96.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	21	ug/Kg	☆	02/14/13 11:19	02/15/13 17:00	1
Acenaphthylene	27	J	41	5.1	ug/Kg	☆	02/14/13 11:19	02/15/13 17:00	1
Anthracene	45		8.6	4.3	ug/Kg	☆	02/14/13 11:19	02/15/13 17:00	1
Benzo[a]anthracene	270		8.2	4.0	ug/Kg	☆	02/14/13 11:19	02/15/13 17:00	1
Benzo[a]pyrene	260		11	5.3	ug/Kg	☆	02/14/13 11:19	02/15/13 17:00	1
Benzo[b]fluoranthene	450		13	6.3	ug/Kg	☆	02/14/13 11:19	02/15/13 17:00	1
Benzo[g,h,i]perylene	180		21	4.5	ug/Kg	☆	02/14/13 11:19	02/15/13 17:00	1
Benzo[k]fluoranthene	130		8.2	3.7	ug/Kg	☆	02/14/13 11:19	02/15/13 17:00	1
Chrysene	280		9.2	4.6	ug/Kg	☆	02/14/13 11:19	02/15/13 17:00	1
Dibenz(a,h)anthracene	51		21	4.2	ug/Kg	☆	02/14/13 11:19	02/15/13 17:00	1
Fluoranthene	470		21	4.1	ug/Kg	☆	02/14/13 11:19	02/15/13 17:00	1
Fluorene	13	J	21	4.2	ug/Kg	☆	02/14/13 11:19	02/15/13 17:00	1
Indeno[1,2,3-cd]pyrene	160		21	7.3	ug/Kg	☆	02/14/13 11:19	02/15/13 17:00	1
1-Methylnaphthalene	56		41	4.5	ug/Kg	☆	02/14/13 11:19	02/15/13 17:00	1
2-Methylnaphthalene	59		41	7.3	ug/Kg	☆	02/14/13 11:19	02/15/13 17:00	1
Naphthalene	53		41	4.5	ug/Kg	☆	02/14/13 11:19	02/15/13 17:00	1
Phenanthrene	210		8.2	4.0	ug/Kg	☆	02/14/13 11:19	02/15/13 17:00	1
Pyrene	440		21	3.8	ug/Kg	☆	02/14/13 11:19	02/15/13 17:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	61		30 - 130				02/14/13 11:19	02/15/13 17:00	1

TestAmerica Savannah

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87318-1
SDG: 68087318-1

Client Sample ID: CV0005I-CS

Lab Sample ID: 680-87318-13

Date Collected: 02/07/13 11:53

Matrix: Solid

Date Received: 02/09/13 10:33

Percent Solids: 95.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	21	ug/Kg	☆	02/14/13 11:19	02/15/13 17:18	1
Acenaphthylene	63		42	5.2	ug/Kg	☆	02/14/13 11:19	02/15/13 17:18	1
Anthracene	68		8.7	4.4	ug/Kg	☆	02/14/13 11:19	02/15/13 17:18	1
Benzo[a]anthracene	400		8.3	4.1	ug/Kg	☆	02/14/13 11:19	02/15/13 17:18	1
Benzo[a]pyrene	460		11	5.4	ug/Kg	☆	02/14/13 11:19	02/15/13 17:18	1
Benzo[b]fluoranthene	730		13	6.3	ug/Kg	☆	02/14/13 11:19	02/15/13 17:18	1
Benzo[g,h,i]perylene	320		21	4.6	ug/Kg	☆	02/14/13 11:19	02/15/13 17:18	1
Benzo[k]fluoranthene	260		8.3	3.7	ug/Kg	☆	02/14/13 11:19	02/15/13 17:18	1
Chrysene	440		9.4	4.7	ug/Kg	☆	02/14/13 11:19	02/15/13 17:18	1
Dibenz(a,h)anthracene	90		21	4.3	ug/Kg	☆	02/14/13 11:19	02/15/13 17:18	1
Fluoranthene	750		21	4.2	ug/Kg	☆	02/14/13 11:19	02/15/13 17:18	1
Fluorene	24		21	4.3	ug/Kg	☆	02/14/13 11:19	02/15/13 17:18	1
Indeno[1,2,3-cd]pyrene	240		21	7.4	ug/Kg	☆	02/14/13 11:19	02/15/13 17:18	1
1-Methylnaphthalene	120		42	4.6	ug/Kg	☆	02/14/13 11:19	02/15/13 17:18	1
2-Methylnaphthalene	130		42	7.4	ug/Kg	☆	02/14/13 11:19	02/15/13 17:18	1
Naphthalene	100		42	4.6	ug/Kg	☆	02/14/13 11:19	02/15/13 17:18	1
Phenanthrene	360		8.3	4.1	ug/Kg	☆	02/14/13 11:19	02/15/13 17:18	1
Pyrene	710		21	3.9	ug/Kg	☆	02/14/13 11:19	02/15/13 17:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	67		30 - 130				02/14/13 11:19	02/15/13 17:18	1

Client Sample ID: CV0005J-CS

Lab Sample ID: 680-87318-14

Date Collected: 02/07/13 11:50

Matrix: Solid

Date Received: 02/09/13 10:33

Percent Solids: 99.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	99	U	99	20	ug/Kg	☆	02/14/13 11:19	02/15/13 17:36	1
Acenaphthylene	40	U	40	5.0	ug/Kg	☆	02/14/13 11:19	02/15/13 17:36	1
Anthracene	4.5	J	8.3	4.2	ug/Kg	☆	02/14/13 11:19	02/15/13 17:36	1
Benzo[a]anthracene	25	J	7.9	3.9	ug/Kg	☆	02/14/13 11:19	02/15/13 17:36	1
Benzo[a]pyrene	21	J	10	5.2	ug/Kg	☆	02/14/13 11:19	02/15/13 17:36	1
Benzo[b]fluoranthene	44	J	12	6.1	ug/Kg	☆	02/14/13 11:19	02/15/13 17:36	1
Benzo[g,h,i]perylene	16	J	20	4.4	ug/Kg	☆	02/14/13 11:19	02/15/13 17:36	1
Benzo[k]fluoranthene	10	J	7.9	3.6	ug/Kg	☆	02/14/13 11:19	02/15/13 17:36	1
Chrysene	29	J	8.9	4.5	ug/Kg	☆	02/14/13 11:19	02/15/13 17:36	1
Dibenz(a,h)anthracene	5.3	J	20	4.1	ug/Kg	☆	02/14/13 11:19	02/15/13 17:36	1
Fluoranthene	41	J	20	4.0	ug/Kg	☆	02/14/13 11:19	02/15/13 17:36	1
Fluorene	20	U	20	4.1	ug/Kg	☆	02/14/13 11:19	02/15/13 17:36	1
Indeno[1,2,3-cd]pyrene	13	J	20	7.0	ug/Kg	☆	02/14/13 11:19	02/15/13 17:36	1
1-Methylnaphthalene	11	J	40	4.4	ug/Kg	☆	02/14/13 11:19	02/15/13 17:36	1
2-Methylnaphthalene	14	J	40	7.0	ug/Kg	☆	02/14/13 11:19	02/15/13 17:36	1
Naphthalene	14	J	40	4.4	ug/Kg	☆	02/14/13 11:19	02/15/13 17:36	1
Phenanthrene	27	J	7.9	3.9	ug/Kg	☆	02/14/13 11:19	02/15/13 17:36	1
Pyrene	38	J	20	3.7	ug/Kg	☆	02/14/13 11:19	02/15/13 17:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	73		30 - 130				02/14/13 11:19	02/15/13 17:36	1

TestAmerica Savannah

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87318-1
SDG: 68087318-1

Client Sample ID: CV0005J-CSD

Lab Sample ID: 680-87318-15

Date Collected: 02/07/13 11:52

Matrix: Solid

Date Received: 02/09/13 10:33

Percent Solids: 97.1

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	21	ug/Kg	☆	02/14/13 11:19	02/15/13 17:55	1
Acenaphthylene	8.5	J	41	5.2	ug/Kg	☆	02/14/13 11:19	02/15/13 17:55	1
Anthracene	16		8.7	4.3	ug/Kg	☆	02/14/13 11:19	02/15/13 17:55	1
Benzo[a]anthracene	60	J	8.3	4.0	ug/Kg	☆	02/14/13 11:19	02/15/13 17:55	1
Benzo[a]pyrene	59	J	11	5.4	ug/Kg	☆	02/14/13 11:19	02/15/13 17:55	1
Benzo[b]fluoranthene	110	J	13	6.3	ug/Kg	☆	02/14/13 11:19	02/15/13 17:55	1
Benzo[g,h,i]perylene	54		21	4.6	ug/Kg	☆	02/14/13 11:19	02/15/13 17:55	1
Benzo[k]fluoranthene	32	J	8.3	3.7	ug/Kg	☆	02/14/13 11:19	02/15/13 17:55	1
Chrysene	73	J	9.3	4.7	ug/Kg	☆	02/14/13 11:19	02/15/13 17:55	1
Dibenz(a,h)anthracene	16	J	21	4.2	ug/Kg	☆	02/14/13 11:19	02/15/13 17:55	1
Fluoranthene	120	J	21	4.1	ug/Kg	☆	02/14/13 11:19	02/15/13 17:55	1
Fluorene	5.6	J	21	4.2	ug/Kg	☆	02/14/13 11:19	02/15/13 17:55	1
Indeno[1,2,3-cd]pyrene	47		21	7.3	ug/Kg	☆	02/14/13 11:19	02/15/13 17:55	1
1-Methylnaphthalene	25	J	41	4.6	ug/Kg	☆	02/14/13 11:19	02/15/13 17:55	1
2-Methylnaphthalene	25	J	41	7.3	ug/Kg	☆	02/14/13 11:19	02/15/13 17:55	1
Naphthalene	27	J	41	4.6	ug/Kg	☆	02/14/13 11:19	02/15/13 17:55	1
Phenanthrene	73	J	8.3	4.0	ug/Kg	☆	02/14/13 11:19	02/15/13 17:55	1
Pyrene	110	J	21	3.8	ug/Kg	☆	02/14/13 11:19	02/15/13 17:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	61		30 - 130				02/14/13 11:19	02/15/13 17:55	1

Client Sample ID: CV0005K-CS

Lab Sample ID: 680-87318-16

Date Collected: 02/07/13 11:55

Matrix: Solid

Date Received: 02/09/13 10:33

Percent Solids: 96.6

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	21	ug/Kg	☆	02/14/13 11:19	02/15/13 18:13	1
Acenaphthylene	17	J	41	5.2	ug/Kg	☆	02/14/13 11:19	02/15/13 18:13	1
Anthracene	33		8.7	4.4	ug/Kg	☆	02/14/13 11:19	02/15/13 18:13	1
Benzo[a]anthracene	160		8.3	4.0	ug/Kg	☆	02/14/13 11:19	02/15/13 18:13	1
Benzo[a]pyrene	150		11	5.4	ug/Kg	☆	02/14/13 11:19	02/15/13 18:13	1
Benzo[b]fluoranthene	260		13	6.3	ug/Kg	☆	02/14/13 11:19	02/15/13 18:13	1
Benzo[g,h,i]perylene	110		21	4.6	ug/Kg	☆	02/14/13 11:19	02/15/13 18:13	1
Benzo[k]fluoranthene	86		8.3	3.7	ug/Kg	☆	02/14/13 11:19	02/15/13 18:13	1
Chrysene	170		9.3	4.7	ug/Kg	☆	02/14/13 11:19	02/15/13 18:13	1
Dibenz(a,h)anthracene	35		21	4.3	ug/Kg	☆	02/14/13 11:19	02/15/13 18:13	1
Fluoranthene	320		21	4.1	ug/Kg	☆	02/14/13 11:19	02/15/13 18:13	1
Fluorene	16	J	21	4.3	ug/Kg	☆	02/14/13 11:19	02/15/13 18:13	1
Indeno[1,2,3-cd]pyrene	86		21	7.4	ug/Kg	☆	02/14/13 11:19	02/15/13 18:13	1
1-Methylnaphthalene	80		41	4.6	ug/Kg	☆	02/14/13 11:19	02/15/13 18:13	1
2-Methylnaphthalene	83		41	7.4	ug/Kg	☆	02/14/13 11:19	02/15/13 18:13	1
Naphthalene	47		41	4.6	ug/Kg	☆	02/14/13 11:19	02/15/13 18:13	1
Phenanthrene	190		8.3	4.0	ug/Kg	☆	02/14/13 11:19	02/15/13 18:13	1
Pyrene	280		21	3.8	ug/Kg	☆	02/14/13 11:19	02/15/13 18:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	66		30 - 130				02/14/13 11:19	02/15/13 18:13	1

TestAmerica Savannah

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87318-1
SDG: 68087318-1

Client Sample ID: CV0005L-CS

Lab Sample ID: 680-87318-17

Date Collected: 02/07/13 11:54

Matrix: Solid

Date Received: 02/09/13 10:33

Percent Solids: 98.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	100	U	100	20	ug/Kg	☆	02/14/13 11:19	02/15/13 18:31	1
Acenaphthylene	40	U	40	5.0	ug/Kg	☆	02/14/13 11:19	02/15/13 18:31	1
Anthracene	8.5	U	8.5	4.2	ug/Kg	☆	02/14/13 11:19	02/15/13 18:31	1
Benzo[a]anthracene	32		8.1	3.9	ug/Kg	☆	02/14/13 11:19	02/15/13 18:31	1
Benzo[a]pyrene	22		11	5.3	ug/Kg	☆	02/14/13 11:19	02/15/13 18:31	1
Benzo[b]fluoranthene	37		12	6.2	ug/Kg	☆	02/14/13 11:19	02/15/13 18:31	1
Benzo[g,h,i]perylene	18	J	20	4.4	ug/Kg	☆	02/14/13 11:19	02/15/13 18:31	1
Benzo[k]fluoranthene	12		8.1	3.6	ug/Kg	☆	02/14/13 11:19	02/15/13 18:31	1
Chrysene	23		9.1	4.5	ug/Kg	☆	02/14/13 11:19	02/15/13 18:31	1
Dibenz(a,h)anthracene	5.7	J	20	4.1	ug/Kg	☆	02/14/13 11:19	02/15/13 18:31	1
Fluoranthene	43		20	4.0	ug/Kg	☆	02/14/13 11:19	02/15/13 18:31	1
Fluorene	20	U	20	4.1	ug/Kg	☆	02/14/13 11:19	02/15/13 18:31	1
Indeno[1,2,3-cd]pyrene	15	J	20	7.2	ug/Kg	☆	02/14/13 11:19	02/15/13 18:31	1
1-Methylnaphthalene	7.6	J	40	4.4	ug/Kg	☆	02/14/13 11:19	02/15/13 18:31	1
2-Methylnaphthalene	10	J	40	7.2	ug/Kg	☆	02/14/13 11:19	02/15/13 18:31	1
Naphthalene	6.9	J	40	4.4	ug/Kg	☆	02/14/13 11:19	02/15/13 18:31	1
Phenanthrene	23		8.1	3.9	ug/Kg	☆	02/14/13 11:19	02/15/13 18:31	1
Pyrene	39		20	3.7	ug/Kg	☆	02/14/13 11:19	02/15/13 18:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	34		30 - 130				02/14/13 11:19	02/15/13 18:31	1

Client Sample ID: CV0005M-CS

Lab Sample ID: 680-87318-18

Date Collected: 02/07/13 11:56

Matrix: Solid

Date Received: 02/09/13 10:33

Percent Solids: 94.2

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	110	U	110	21	ug/Kg	☆	02/14/13 11:19	02/15/13 18:50	1
Acenaphthylene	21	J	43	5.3	ug/Kg	☆	02/14/13 11:19	02/15/13 18:50	1
Anthracene	18	J	8.9	4.5	ug/Kg	☆	02/14/13 11:19	02/15/13 18:50	1
Benzo[a]anthracene	110		8.5	4.1	ug/Kg	☆	02/14/13 11:19	02/15/13 18:50	1
Benzo[a]pyrene	120		11	5.5	ug/Kg	☆	02/14/13 11:19	02/15/13 18:50	1
Benzo[b]fluoranthene	200		13	6.5	ug/Kg	☆	02/14/13 11:19	02/15/13 18:50	1
Benzo[g,h,i]perylene	100		21	4.7	ug/Kg	☆	02/14/13 11:19	02/15/13 18:50	1
Benzo[k]fluoranthene	61		8.5	3.8	ug/Kg	☆	02/14/13 11:19	02/15/13 18:50	1
Chrysene	110		9.6	4.8	ug/Kg	☆	02/14/13 11:19	02/15/13 18:50	1
Dibenz(a,h)anthracene	22		21	4.4	ug/Kg	☆	02/14/13 11:19	02/15/13 18:50	1
Fluoranthene	190	J	21	4.3	ug/Kg	☆	02/14/13 11:19	02/15/13 18:50	1
Fluorene	4.6	J	21	4.4	ug/Kg	☆	02/14/13 11:19	02/15/13 18:50	1
Indeno[1,2,3-cd]pyrene	80		21	7.5	ug/Kg	☆	02/14/13 11:19	02/15/13 18:50	1
1-Methylnaphthalene	26	J	43	4.7	ug/Kg	☆	02/14/13 11:19	02/15/13 18:50	1
2-Methylnaphthalene	26	J	43	7.5	ug/Kg	☆	02/14/13 11:19	02/15/13 18:50	1
Naphthalene	24	J	43	4.7	ug/Kg	☆	02/14/13 11:19	02/15/13 18:50	1
Phenanthrene	95	J	8.5	4.1	ug/Kg	☆	02/14/13 11:19	02/15/13 18:50	1
Pyrene	190	J	21	3.9	ug/Kg	☆	02/14/13 11:19	02/15/13 18:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	70		30 - 130				02/14/13 11:19	02/15/13 18:50	1

TestAmerica Savannah

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-87318-1
SDG: 68087318-1

Client Sample ID: CV0005M-CSD

Lab Sample ID: 680-87318-19

Date Collected: 02/07/13 11:58

Matrix: Solid

Date Received: 02/09/13 10:33

Percent Solids: 95.8

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	24	J	100	21	ug/Kg	☆	02/14/13 11:19	02/15/13 19:08	1
Acenaphthylene	11	J	41	5.2	ug/Kg	☆	02/14/13 11:19	02/15/13 19:08	1
Anthracene	53	J	8.7	4.4	ug/Kg	☆	02/14/13 11:19	02/15/13 19:08	1
Benzo[a]anthracene	170		8.3	4.0	ug/Kg	☆	02/14/13 11:19	02/15/13 19:08	1
Benzo[a]pyrene	160		11	5.4	ug/Kg	☆	02/14/13 11:19	02/15/13 19:08	1
Benzo[b]fluoranthene	270		13	6.3	ug/Kg	☆	02/14/13 11:19	02/15/13 19:08	1
Benzo[g,h,i]perylene	120		21	4.6	ug/Kg	☆	02/14/13 11:19	02/15/13 19:08	1
Benzo[k]fluoranthene	79		8.3	3.7	ug/Kg	☆	02/14/13 11:19	02/15/13 19:08	1
Chrysene	170		9.3	4.7	ug/Kg	☆	02/14/13 11:19	02/15/13 19:08	1
Dibenz(a,h)anthracene	28		21	4.2	ug/Kg	☆	02/14/13 11:19	02/15/13 19:08	1
Fluoranthene	410	J	21	4.1	ug/Kg	☆	02/14/13 11:19	02/15/13 19:08	1
Fluorene	23		21	4.2	ug/Kg	☆	02/14/13 11:19	02/15/13 19:08	1
Indeno[1,2,3-cd]pyrene	93		21	7.4	ug/Kg	☆	02/14/13 11:19	02/15/13 19:08	1
1-Methylnaphthalene	30	J	41	4.6	ug/Kg	☆	02/14/13 11:19	02/15/13 19:08	1
2-Methylnaphthalene	36	J	41	7.4	ug/Kg	☆	02/14/13 11:19	02/15/13 19:08	1
Naphthalene	59		41	4.6	ug/Kg	☆	02/14/13 11:19	02/15/13 19:08	1
Phenanthrene	270	J	8.3	4.0	ug/Kg	☆	02/14/13 11:19	02/15/13 19:08	1
Pyrene	360	J	21	3.8	ug/Kg	☆	02/14/13 11:19	02/15/13 19:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	60		30 - 130				02/14/13 11:19	02/15/13 19:08	1

Client Sample ID: CV0005N-CS

Lab Sample ID: 680-87318-20

Date Collected: 02/07/13 12:03

Matrix: Solid

Date Received: 02/09/13 10:33

Percent Solids: 85.3

Method: 8270C LL - Semivolatile Organic Compounds by GCMS - Low Levels									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	120	U	120	23	ug/Kg	☆	02/14/13 11:19	02/15/13 19:26	1
Acenaphthylene	18	J	47	5.9	ug/Kg	☆	02/14/13 11:19	02/15/13 19:26	1
Anthracene	30		9.9	4.9	ug/Kg	☆	02/14/13 11:19	02/15/13 19:26	1
Benzo[a]anthracene	180		9.4	4.6	ug/Kg	☆	02/14/13 11:19	02/15/13 19:26	1
Benzo[a]pyrene	190		12	6.1	ug/Kg	☆	02/14/13 11:19	02/15/13 19:26	1
Benzo[b]fluoranthene	310		14	7.2	ug/Kg	☆	02/14/13 11:19	02/15/13 19:26	1
Benzo[g,h,i]perylene	150		23	5.2	ug/Kg	☆	02/14/13 11:19	02/15/13 19:26	1
Benzo[k]fluoranthene	110		9.4	4.2	ug/Kg	☆	02/14/13 11:19	02/15/13 19:26	1
Chrysene	190		11	5.3	ug/Kg	☆	02/14/13 11:19	02/15/13 19:26	1
Dibenz(a,h)anthracene	44		23	4.8	ug/Kg	☆	02/14/13 11:19	02/15/13 19:26	1
Fluoranthene	330		23	4.7	ug/Kg	☆	02/14/13 11:19	02/15/13 19:26	1
Fluorene	7.4	J	23	4.8	ug/Kg	☆	02/14/13 11:19	02/15/13 19:26	1
Indeno[1,2,3-cd]pyrene	110		23	8.3	ug/Kg	☆	02/14/13 11:19	02/15/13 19:26	1
1-Methylnaphthalene	53		47	5.2	ug/Kg	☆	02/14/13 11:19	02/15/13 19:26	1
2-Methylnaphthalene	52		47	8.3	ug/Kg	☆	02/14/13 11:19	02/15/13 19:26	1
Naphthalene	49		47	5.2	ug/Kg	☆	02/14/13 11:19	02/15/13 19:26	1
Phenanthrene	140		9.4	4.6	ug/Kg	☆	02/14/13 11:19	02/15/13 19:26	1
Pyrene	310		23	4.3	ug/Kg	☆	02/14/13 11:19	02/15/13 19:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	71		30 - 130				02/14/13 11:19	02/15/13 19:26	1

TestAmerica Savannah

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)